

**AMENDMENTS TO THE CLAIMS**

Claims 1-19 (Cancelled).

20. (Previously presented) The operating method as claimed in claim 30, further comprising the steps of:

controlling a multiplexer by the selection lines such that data transmitted over a module transmission line of the selected measurement module are forwarded via the multiplexer to the central unit.

21. (Previously presented) The operating method as claimed in claim 30, further comprising the step of:

transmitting data transmitted from the central unit over a central transmission line to all measurement modules.

22. (Previously presented) The operating method as claimed in claim 30, further comprising the step of:

utilizing data sent from the central unit only in the measurement module selected by means of a selection line.

23. (Previously presented) The operating method as claimed in claim 30, wherein:

the measurement modules are periodically selected by the central unit.

Claims 24 - 27 (Cancelled).

28. (Currently Amended) A measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, comprising:

a central unit;

a central transmission line;

at least one measurement module connected to said central unit for transferring ~~digital~~ a data signal over said central transmission line;

a selection line assigned to each measurement module for connecting its respective measurement module to said central unit; and

a multiplexer[[,]] ; and

a measurement module transmission line connecting its respective measurement module to said multiplexer, wherein:

each measurement module is selectable by said central unit by a selection line;

~~the module transmission lines are connectable with the inputs of said multiplexer;~~

the output of said multiplexer is connectable with said central unit; and  
said multiplexer is controllable via said selection lines.

Claim 29 (Cancelled).

30. (Currently Amended) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, and at least one measurement module connected with the central unit; comprising the steps of:

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providing a selection line for each measurement module over which ~~digital~~  
a data signal is transferred; and

selecting a measurement module by the central unit and a selection line,  
wherein:

different measuring modules are selected for different selection times  
periodically by the central unit; and

the selection times are changed.

31. (Currently Amended) An operating method for a measuring device for  
process technology, to be used in measurement and/or cleaning and/or  
calibration installations in the area of process automation, for measuring pH-  
values and/or redox potentials and/or other process parameters, having a central  
unit, and at least one measurement module connected with the central unit;  
comprising the steps of:

providing a selection line for each measurement module over which a  
~~digital~~ data signal is transferred; and

selecting a measurement module by the central unit and a selection line,  
wherein:

the measurement modules are selected a plurality of times within one  
cycle.